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Professional Solutions Provider of Load Banks

专业负载测试系统方案服务商

广东宜迈思电气有限公司
Guangdong EMAX Electric Co., Ltd

资质荣誉

Honors and Qualifications

我们格外珍惜每项证书荣誉,他展现了宜迈思全体员工的创新结晶,我们注重科技创新。

We cherish every certificate and honor particularly, which demonstrate the innovative crystallization of all our colleagues in EMAX, and also reflect our attention to technology and innovation.



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公司简介

Company Profile

广东宜迈思电气有限公司是一家以测试负载为基础产品，为电能的生产、传输、转化、控制和消耗提供测试系统及智能制造设备的综合性测试装备公司。

目前主要有干式负载、液冷负载、相变负载、电子式负载、回馈式负载及智能制造装备产品线，产品主要应用在新能源发电、数据中心、军工舰船、电动车辆、燃料电池、开关器件测试、充电桩测试、实验室认证等工业领域。由于测试电源产品运用的广泛性特点，公司产品还应用于轨道交通、汽车电子、智能制造、机电设备、航空航天、实验室认证等众多行业领域。

经过多年技术积累、升级和迭代与市场深耕积累了大量的行业应用经验相结合，公司实现了前沿理论与实际工业场景的融合，有针对性的为下游行业领域客户提供所需的测试装备。公司多款产品实现了进口替代，产品远销欧洲、日韩及多个东南亚国家，宜迈思电气将继续专注于测试负载产品研发及制造，并已成为一家国内领先、业界知名的综合性测试装备公司。

“勇担当、敢创新、精益求精”是公司的核心价值观，宜迈思致力成为全球领先的综合性测试装备供应商，为客户提供专业的产品和服务，让测试精准便捷。

Guangdong EMAX Electric Co., Ltd. is a comprehensive test equipment supplier with test Load bank as its core products, providing advanced test systems and intelligent manufacturing equipment for the generation, transmission, conversion, control and use of electric energy.

EMAX Electric's products include dry Load bank, water-cooled loads, phase change Load bank, electronic Load bank, regenerative Load bank and intelligent manufacturing equipment, which are widely used in new energy power generation, data centers, military ships, electric vehicles, fuel cells, switch equipment testing, charging pile testing, laboratory certification and other fields, and involve rail transportation, automotive electronics, intelligent manufacturing, electromechanical equipment, aerospace and other industries.

With years of technological progress and market experience, EMAX Electric has the ability to combine cutting-edge theoretical technology with practical industrial applications, and provides customized test equipment for leading companies in various industries. Many products have successfully replaced imports and exported to Europe, Japan, South Korea and Southeast Asian countries. As a result, EMAX has become a recognized leading company in the field of comprehensive test equipment at home and abroad.

With responsibility, innovation and excellence as its core values, EMAX is committed to becoming a global leader in comprehensive test equipment. The company is committed to providing professional products and services to ensure accurate and convenient testing for global customers.

企业文化

Corporate Culture



创新 Innovation

启发推广创新文化，将创新思维注入到对产品、工艺、技术、管理模式的持续改进过程中。

inspire and promote innovation culture, and inject innovative thinking into the process of continuous improvement of products, process, technology, and management mode.



共赢 Win-win

以合作为基石，以团队利益及目标为导向，通过与员工、客户及供应商的高效沟通与合作实现双赢。

Based on cooperation, guided by team interests and goals, achieve a win-win situation through efficient communication and cooperation with employees, customers and suppliers.



担当 Responsibility

以担当为态度，每一位宜迈思人具备主人翁意识，以公司发展为己任，以顾客关注为高准则，不断提高工作效率：提供一站式的电能测试解决方案。

With the attitude of responsibility, every IMAX employee has a sense of ownership, takes the company's development as his own responsibility, and takes customer attention as the highest criterion to continuously improve work efficiency: provide a one-stop power test solution.



执行 Execution

以执行为基础，强化执行意识，端正执行态度，终形成目标明确、注重落实、简洁高效的执行文化。

Based on execution, strengthen the awareness of execution, correct the attitude of execution, and finally form a clear-cut, implementation-oriented, concise and efficient execution culture.



认可 Recognition

以认可为目标，促进员工与企业的相互认可实现共同发展，赢得外界对宜迈思的信赖。

With recognition as the goal, promote the mutual recognition of employees and enterprises to achieve common development and win the trust of the outside world.



赞美 Praise

提倡并推广赞美文化，通过赞美激励员工，充分发挥员工的创造力及主人翁的责任感。

Advocate and promote the praise culture, motivate employees through praise, and give full play to the creativity of employees and the sense of responsibility of the master.





发电机/动力测试 Generator/power test

提高电源设备的质量控制能力,减少因电源故障造成的安全事故和经济损失
Improve the quality control ability of power supply equipment, reduce the safety accidents and economic losses caused by power failure



检测认证机构 Testing and certification agency

为测试更精准,产品更安全
For more accurate testing, the product is safer



风/光/氢/储 Wind energy / Solar energy / Hydrogen energy / Energy storage

为新能源助力,开创绿色节能生活。
To help new energy and create a green and energy-saving life.



军工 Military industry

为军工舰船、航天安全保驾护航
Escort military ships and aerospace safety



低压集装箱负载
 LV Contain Load bank



应用领域 Application field

- 船用发电机组检测;
 - 应急电源检测;
 - 舰船负载测试;
 - 逆变器、变流器测试,
 - 岸电电源检测
 - 海上石油平台负载测试
 - 核电站应急电源检测
 - 电站、电厂测试
- Testing of marine diesel generator sets
 - Emergency power detection;
 - Ship load test;
 - Inverter, converter test,
 - Shore power detection
 - Offshore oil platform load test
 - Nuclear power plant emergency power detection
 - Power station, power plant test

产品特性 Product Features

- 可满足长期户外使用;
- 功率密度大, 远超同行平均功率密度;
- 具有RS485、以太网、CAN等多种通讯接口
- 测试步骤可编程, 适用于柴油发电机组、燃气发电机组、防反送电、自动化测试
- 可加载满功率范围内任意功率、任意功率因数, 测试并显示三相电压、电流、功率、功率因数;
- 功率调节精度: 1kW
- 功率因数可调: 可定制PF=0.8/1/0.4等其他功率因数产品
- 通过PC数据管理软件控制负载加卸载, 并保存测试数据

- Can meet long-term outdoor use;
- High power density, far exceeding the average power density of peers;
- With RS485, RJ45, CAN and other communication interfaces
- Programmable test steps, suitable for diesel generator sets, gas generator sets, anti-reverse power transmission, automatic testing
- It can load any power and any power factor within the full power range, test and display three-phase voltage, current, power, and power factor;
- Power adjustment accuracy: 1kW
- Adjustable power factor: PF=0.8/1/0.4 and other power factor products can be customized
- Control load loading and unloading through PC data management software, and save test data

产品说明 Product Description

IMAX4100系列低压集装箱负载主要是一款综合测试负载箱。该系列负载箱的主要特点是可满足户外全天候使用, 7*24小时长期使用, 便于移动吊装使用。该系列负载箱电压单位为36V-1500V, 单机功率单位为1000kW-6000kW, 可多台并机使用, 满足更大功率范围使用。

IMAX4100系列负载箱的显著特点为:

- 防护等级高, 使用IP54, 存储最高IP56
- 全天候使用。可雨天长期使用。
- 便于移动吊装。采用标准集装箱外形, 便于运输和吊装, 可置于码头, 夹板、楼顶等各种复杂工况下使用。
- 功率等级达, 负荷密度大。

The IMAX4100 series low-voltage container Load bank is mainly a comprehensive test Load bank. The main feature of this series of Load bank is that it can be used outdoors all-weather, and can be used for a long time 7*24 hours, which is convenient for mobile hoisting. The voltage unit of this series of Load bank is 36V-1500V, and the single unit power unit is 1000kW-6000kW. Multiple units can be used in parallel to meet the use of a larger power range. The salient features of the IMAX4100 series load bank are:

- High protection level, using IP54, storage up to Ip56
- Use 24/7. It can be used for a long time in rainy days.
- Easy to move and hoist. It adopts the shape of a standard container, which is convenient for transportation and hoisting, and can be used in various complex working conditions such as docks, plywood, and roofs.
- High power level, high Load bank density.

规格 Specifications

名称 Name	低压集装箱纯阻性负载 LV container resistive Load bank					
负载型号 Load model	IMAX4110-1500k	IMAX4110-2000k	IMAX4110-3000k	IMAX4110-4000k	IMAX4110-5000k	IMAX4110-6000k
额定电压 Rated voltage	3P4W, AC220V/380V/400V/415V/440V/480V/690V/1140V					
阻性功率 Resistive power	1500kW	2000kW	3000kW	4000kW	5000kW	6000kW
额定频率 Rated frequency	50/60Hz					
加载方式 loading method	步进加载 Step loading					
功率因数 Power factor	1					
负载步进 load step	1KW					
主要检测项目 Main testing items	电源检测长期带载, 开关器件寿命测试 Power supply testing long-term Load bank, switching device life test					
保护报警 protection alarm	负载短路、过流保护、过压保护、高温故障、风压保护、急停等保护功能。 Load short circuit, over current protection, over voltage protection, high temperature fault, wind pressure protection, emergency stop and other protection functions.					
测控参数 Measurement and control parameters	显示电压、电流、有功功率、无功功率、视在功率、功率因数、频率等基本功能。 Display voltage, current, active power, reactive power, apparent power, power factor, frequency and other basic functions.					
噪音 noise	≤85dB		≤86dB		≤88dB	
出风方式 air outlet	侧下进风, 顶部出风。 side and bottom inlet,top outlet.					
显示精度 Display accuracy	0.1V, 0.1A					
控制方式 control method	本地手动控制:通过负载箱7寸液晶触摸屏。 Local manual control: through the Load bank 7 inch LCD touch screen.					
	远程智能控制:RS485/CAN/以太网 Remote intelligent control: RS485/CAN/ RJ45					
使用场所 place of use	室内 indoor				室内/室外 Indoor/outdoor	
重量 weight	3500kg	4200kg	6500kg	7500kg	9200kg	11500kg
尺寸 size	L2991mm×W2438mm×H2896mm		L6058mm×W2438mm×H2896mm		L12192mm×W2438mm×H2896mm	
	10尺3米集装箱 10 feet 3 meter container		20尺6米集装箱 20 feet 6 meter container		40尺12米集装箱 40 feet 12 meters container	

规格 Specifications

名称 Name	低压集装箱阻感容负载 LV container RLC Load Bank					
负载型号 Load model	IMAX4130-2000k	IMAX4130-4000k	IMAX4130-6000k	IMAX4130-1500k	IMAX4130-3000k	IMAX4130-4000k
额定电压 Rated voltage	3P4W, AC220V/380V/400V/415V/440V/480V/690V/1140V					
阻性功率 Resistive power	1600kW	3200kW	6000kW	1200kW	2400kW	3200kW
感性功率 Inductive power	1200kVar	2400kVar	600kVar	900kVar	1800kVar	2400kVar
容性 capacitive	-----	-----	-----	900kVar	1800kVar	2400kVar
额定频率 Rated frequency	50/60Hz					
加载方式 loading method	步进加载 Step loading					
功率因数 Power factor	0.8-1					
负载步进 load step	1KW					
主要检测项目 Main testing items	电源检测长期带载, 开关器件寿命测试 Power supply testing long-term Load bank, switching device life test					
保护报警 protection alarm	负载短路、过流保护、过压保护、高温故障、风压保护、急停等保护功能。 Load short circuit, over current protection, over voltage protection, high temperature fault, wind pressure protection, emergency stop and other protection functions.					
测控参数 Measurement and control parameters	显示电压、电流、有功功率、无功功率、视在功率、功率因数、频率等基本功能。 Display voltage, current, active power, reactive power, apparent power, power factor, frequency and other basic functions.					
噪音 noise	≤85dB		≤86dB		≤88dB	
出风方式 air outlet	侧下进风, 顶部出风。 side and bottom inlet,top outlet.					
控制方式 control method	本地触摸屏控制 Local touch screen control 远程智能控制: RS485/CAN/以太网 Remote intelligent control: RS485/CAN/ RJ45					
使用场所 place of use	室内/室外 Indoor/outdoor					
重量 weight	12000kg	19000kg	26000kg	11000kg	16000kg	19000kg
尺寸 size	L3500mm×W2438mm×H2896mm	L6058mm×W2438mm×H2896mm	L12192mm×W2438mm×H2896mm	L3500mm×W2438mm×H2896mm	L6058mm×W2438mm×H2896mm	L9000mm×W2438mm×H2896mm
	3.5米集装箱 3.5m container	20尺6米集装箱 20 feet 6 meters container	40尺12米集装箱 40 feet 12 meters container	3.5米集装箱 3.5 meters container	20尺6米集装箱 20 feet 6 meters container	9米集装箱 9 meters container

高压集装箱负载
HV Container Load bank



产品特性 Product Features

- 直接高压测试负载, 可满足长期户外使用;
- 功率密度大, 远超同行平均功率密度;
- 具有RS485、以太网、CAN等多种通讯接口
- 测试步骤可编程, 适用于柴油发电机组、燃气发电机组、防反送电、自动化测试
- 可加载满功率范围内任意功率、任意功率因数, 测试并显示三相电压、电流、功率、功率因数;
- 功率调节精度: 10kW/10.kvar
- 功率因数可调: 可定制PF=0.8/1/0.4等其他功率因数产品
- 通过PC数据管理软件控制负载加卸载, 并保存测试数据

- Direct high voltage test Load bank, which can meet long-term outdoor use;
- High power density, far exceeding the average power density of peers;
- With RS485, RJ45, CAN and other communication interfaces
- Programmable test steps, suitable for diesel generators, gas generators, anti-reverse power transmission, automated testing
- It can load any power and any power factor within the full power range, test and display three-phase voltage, current, power, and power factor;
- Power adjustment accuracy: 10kW/10.kvar
- Adjustable power factor: PF=0.8/1/0.4 and other power factor products can be customized
- Control Load bank loading and unloading through PC data management software, and save test data

应用领域 Application field

- 中压船用发电机组检测;
- 海上石油平台负荷测试
- 应急电源检测;
- 核电站应急电源检测
- 数据中心;
- 电站、电厂测试
- 岸电电源检测

- Detection of marine generator sets;
- Emergency power detection;
- Data Centre;
- Shore power detection
- Offshore oil platform load test
- Nuclear power plant emergency power detection
- Power station, power plant test

产品说明 Product Description

IMAX4500系列中压压集装箱负载主要是一款综合测试负载箱。该系列负载箱的主要特点是可满足户外全天候使用, 7*24小时长期使用, 便于移动吊装使用。该系列负载箱电压单位为6.3/6.6/10/11kV, 单机功率单位为1000kW-6000kW, 可多台并机使用, 满足更大功率范围使用。

IMAX4500系列负载箱的显著特点为:

- 防护等级高, 使用IP54, 存储最高IP56
- 全天候使用。可雨天长期使用。
- 便于移动吊装。采用标准集装箱外形, 便于运输和吊装, 可置于码头, 夹板、楼顶等各种复杂工况下使用。
- 功率等级达, 负荷密度大。
- 直接高压负载, 高压纯阻/阻感/阻容

IMAX4500 series medium pressure container Load bank is mainly a comprehensive test Load bank. The main feature of this series of Load bank is that it can be used outdoors all-weather, and can be used for a long time 7*24 hours, which is convenient for mobile hoisting. The voltage unit of this series of Load bank is 6.3/6.6/10/11kV, and the single unit power unit is 1000kW-6000kW. Multiple units can be used in parallel to meet a larger power range.

The salient features of the IMAX4500 series Load bank are:

- High protection level, using IP54, storage up to Ip56
- Use 24/7. It can be used for a long time in rainy days.
- Easy to move and hoist. It adopts the shape of a standard container, which is convenient for transportation and hoisting, and can be used in various complex working conditions such as docks, plywood, and roofs.
- High power level, high load density.
- Direct high-voltage Load bank, high-voltage pure resistance/resistance-inductance/resistance-capacitance



规格 Specifications

名称 Name	集装箱低压纯阻负载-R Container low voltage pure resistance Load bank -R					
负载型号 Load model	IMAX4510-1000k	IMAX4510-2000k	IMAX4510-2500k	IMAX4510-3000k	IMAX4510-4000k	IMAX4510-5000k
额定电压 Rated voltage	3P4W, AC6.3kV/6.6kV/10kV/11kV/13.8kV					
阻性功率 Resistive power	1000kW	2000kW	2500kW	3000kW	4000kW	5000kW
额定频率 Rated frequency	50/60Hz					
加载方式 loading method	步进加载 Step loading					
功率因数 Power factor	1					
负载步进 load step	1KW					
主要检测项目 Main testing items	电源检测长期带载, 开关器件寿命测试 Power supply testing long-term Load bank, switching device life test					
保护报警 protection alarm	负载短路、过流保护、过压保护、高温故障、风压保护、急停等保护功能。 Load short circuit, over current protection, over voltage protection, high temperature fault, wind pressure protection, emergency stop and other protection functions.					
测控参数 Measurement and control parameters	显示电压、电流、有功功率、无功功率、视在功率、功率因数、频率等基本功能。 Display voltage, current, active power, reactive power, apparent power, power factor, frequency and other basic functions.					
噪音 noise	≤85dB		≤86dB		≤88dB	
出风方式 air outlet	侧下进风, 顶部出风。 side and bottom inlet,top outlet.					
显示精度 Display accuracy	0.1V, 0.1A					
控制方式 control method	本地手动控制:通过负载箱7寸液晶触摸屏。 Local manual control: through the Load bank 7 inch LCD touch screen.					
	远程智能控制: RS485/CAN/以太网 Remote intelligent control: RS485/CAN/RJ45					
使用场所 place of use	室内 indoor			室内/室外 Indoor/outdoor		
重量 weight	3500kg	4200kg	6500kg	7500kg	9200kg	11500kg
尺寸 size	L2991mm×W2438mm ×H2896mm	L6058mm×W2438mm×H2896mm		L7500mm×W2438mm ×H2896mm	L9000mm×W2438mm ×H2896mm	L12192mm×W2438mm ×H2896mm
	10尺3米集装箱 10 feet 3 meter container	20尺6米集装箱 20 feet 3 meter container		7.5米集装箱 7.5m container	9米集装箱 9m container	40尺12米集装箱 40 feet 12 meter container

规格 Specifications

名称 Name	集装箱中压阻感负载-RL Piezoresistive Load bank in container -RL			
负载型号 Load model	IMAX4130-1500k	IMAX4130-2000k	IMAX4130-3000k	IMAX4130-4000k
额定电压 Rated voltage	3P4W, AC6.3kV/6.6kV/10kV/11kV/13.8kV			
阻性功率 Resistive power	1200kW	1600kW	2400kW	3200kW
感性功率 Inductive power	900kVar	1200kVar	1800kVar	2400kVar
额定频率 Rated frequency	50/60Hz			
加载方式 loading method	步进加载 Step loading			
功率因数 Power factor	0.8-1			
负载步进 load step	1KW			
主要检测项目 Main testing items	发电机组测试 Generator set test			
保护报警 protection alarm	负载短路、过流保护、过压保护、高温故障、风压保护、急停等保护功能。 Load bank short circuit, over current protection, over voltage protection, high temperature fault, wind pressure protection, emergency stop and other protection functions.			
测控参数 Measurement and control parameters	显示电压、电流、有功功率、无功功率、视在功率、功率因数、频率等基本功能。 Display voltage, current, active power, reactive power, apparent power, power factor, frequency and other basic functions.			
噪音 noise	≤85dB		≤86dB	
出风方式 air outlet	侧下进风,顶部出风。 side and bottom inlet,top outlet.			
显示精度 Display accuracy	0.1V, 0.1A			
控制方式 control method	本地手动控制:通过负载箱7寸液晶触摸屏。 Local manual control: through the Load bank 7 inch LCD touch screen.			
	远程智能控制: RS485/CAN/以太网 Remote intelligent control: RS485/CAN/RJ45			
使用场所 place of use	室内 indoor		室内/室外 indoor/outdoor	
重量 weight	9500kg	14000kg	16500kg	19000kg
尺寸 size	L4500mm×W2438mm×H2896mm	L9000mm×W2438mm×H2896mm	L12192mm×W2438mm×H2896mm	
	4.5米集装箱 4.5m container	9米集装箱 9m container	40尺12米集装箱 40 feet 12 meter container	

直流负载箱
DC Load bank



产品特性 Product Features

- 可按照电流和功率分档, 1mA/1W;
- 提供上位机操作软件, 具备数据监控软件;
- 具有RS485、以太网、CAN等多种通讯接口;
- 具有低压大电流型负载, 可模拟短时和长期大电流负载模式;
- 具有高压直流负载, 最高电压为DC4KV以上;
- 具有宽电压多段式直流负载, 可平替直流电子负载, 性价比高;
- 具有标准机型, 可模块化并行;

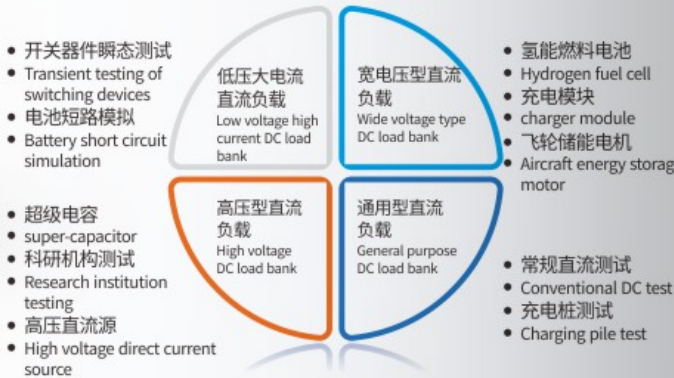
It can be classified according to current and power, 1mA/1W;
Provide PC operating software;
With RS485, RJ45, CAN and other communication interfaces;
With low-voltage and high-current load bank, it can simulate short-term and long-term high-current load modes;
With high voltage DC Load bank, the highest voltage is above DC4KV;
It has a wide voltage multi-stage DC load bank, which can replace DC electronic load bank and is cost-effective.
It has a standard model and can be modularized for parallel operation;

应用领域 Application field

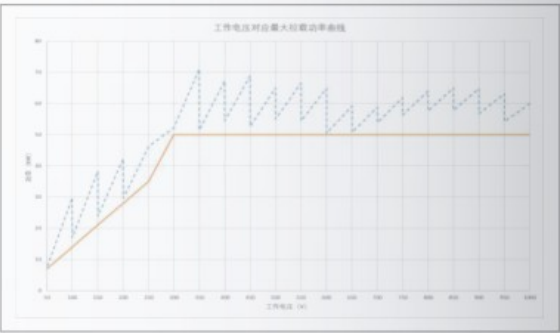
氢能燃料电池电堆及发动机测试、飞轮储能电机测试、超级充电桩测试、高压充电模块测试、电池短路模拟测试、断路器瞬态特性测试、锂电池放电测试、废旧电池放电。
Hydrogen fuel cell stack and engine test, flywheel energy storage motor test, super charging pile test, high voltage charging module test, battery short circuit simulation test, circuit breaker transient characteristic test, lithium battery discharge test, waste battery discharge.

产品说明 Product Description

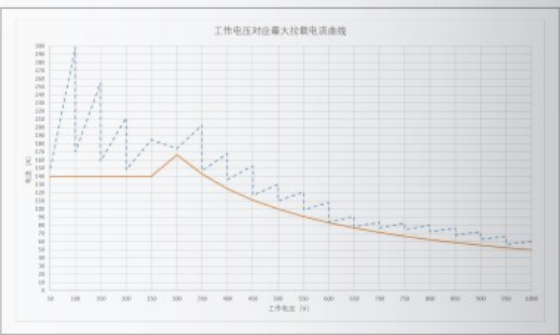
宜迈思IMAX2000为直流系列负载, 直流系列负载主要包括通用型直流负载箱、低压大电流型直流负载箱、高压型直流负载箱和宽电压式直流负载。该系列直流负载电压从DC5V-4kV, 单机功率范围为1-2000kW, 另外支持多台并行, 满足更大负荷测试需求。
IMAX2000 is a DC series Load bank, and the DC series Load bank mainly includes general-purpose DC Load bank, low-voltage and high-current DC Load bank, high-voltage DC Load bank and wide-voltage DC Load bank. The DC Load bank voltage of this series ranges from DC5V-4kV, and the power range of a single machine is 1-2000kW. In addition, it supports multiple parallel machines to meet the needs of larger Load bank tests.



发热单元热分析 Thermal analysis of heating unit



发热单元温度云图 Heating unit temperature cloud map



规格 Specifications

名称 Name	通用型直流负载 General purpose DC Load bank					
负载型号 Load model	IMAX2100-30k	IMAX2100-50k	IMAX2100-100k	IMAX2100-200k	IMAX2100-300k	IMAX2100-500k
额定电压 Rated voltage	5V/60V/240V/750V/1000V等任意直流电压 Any DC voltage such as 5V/60V/240V/750V/1000V					
功率 power	30kW	50kW	100kW	200kW	300kW	500kW
加载方式 loading method	步进分档加载 Step file loading					
负载特性 Load characteristics	纯电阻 Pure resistance					
负载步进 load step	1KW					
保护报警 protection alarm	负载短路、过流保护、过压保护、高温故障、急停等保护功能。 Load short circuit, over current protection, over voltage protection, high temperature fault, emergency stop and other protection functions.					
测控参数 Measurement and control parameters	电压、电流 Voltage and current					
噪音 noise	≤70dB	≤73dB	≤75dB	≤76dB	≤77dB	≤78dB
出风方式 air outlet	侧进风, 侧出风		侧下进风, 顶部出风		侧下进风, 顶部出风	
显示精度 Display accuracy	0.1V, 0.1A			0.1V, 0.1A		
控制方式 control method	本地手动控制: 本地按钮/空开/触摸屏控制 Local manual control: Local button/air switch/touch screen control 远程智能控制: RS485/CAN/以太网 Remote intelligent control: RS485/CAN/ RJ45					
使用场所 place of use	室内 indoor			室内 indoor		
重量 weight	50kg	75kg	150kg	250kg	425kg	650kg
尺寸 size	W600mm×D800mm ×H800mm	W600mm×D800mm ×H1400mm	W600mm×D800mm ×H1600mm	W800mm×D800mm ×H1800mm	侧出风(Side air out): W1500mm× D1300mm×H1400mm 顶出风(Ejection air): W1200mm* D1200mm *1800mm	侧出(Lateral out): W1750mm× D1300mm×H1400mm 顶出(ejection): W1200mm* D1400mm *H1800mm

规格 Specifications

名称 Name	IMAX2900 系列直流宽电压负载 IMAX2900 series DC wide voltage Load bank		
负载型号 Load model	IMAX2910	IMAX2920	IMAX2928
额定电压 Rated voltage	0-1000VDC		
恒功率范围 Constant power range	50kw	200kw	400kw
可调精度 Adjustable precision	0.1A/0.1kw		
测控参数 Measurement and control parameter	电压/电流/功率 Voltage/current/power		
噪音 (1m) Noise (1m)	≤72dB	≤75dB	≤78dB
保护报警 protection alarm	下进风/上出风 Down air/up air		
出风方式 Control accuracy	触摸屏控制 Touch screen control		
控制方式 Control accuracy	远程智能控制: RS485/CAN/以太网 Remote intelligent control: RS485/CAN/ RJ45		
使用场所 Place of use	室内 indoor		
重量 Weight	200kg	650kg	1200kg
尺寸 size	W800mm x D1000mm x H1800mm	W1200mm x D1400mm x H2000mm	W2000mm x D1800mm x H2000mm

交流负载箱
AC Load bank



产品特性 Product Features

- 可满足长期户外使用;
- 提供上位机操作软件
- 具有RS485、以太网、CAN等多种通讯接口
- 测试步骤可编程,适用于柴油发电机组、燃气发电机组、防反送电、自动化测试
- 可加载满功率范围内任意功率、任意功率因数,测试并显示三相电压、电流、功率、功率因数;
- 功率调节精度:1kW
- 通过PC数据管理软件控制负载加卸载,并保存测试数据

- Can meet long-term outdoor use;
- Provide upper computer operating software
- With RS485, RJ45, CAN and other communication interfaces
- Programmable test steps, suitable for diesel generators, gas generators, anti-reverse power transmission, automated testing
- It can Load bank any power and any power factor within the full power range, test and display three-phase voltage, current, power, and power factor;
- Power adjustment accuracy: 1kW
- Control load loading and unloading through PC data management software, and save test data

产品说明 Product Description

宜迈思3100系列交流负载箱为交流纯阻/阻感负载箱,产品可覆盖功率范围50~1000kVA,产品工作电压范围0~1140V (AC/DC),负载箱可以单独使用,也可以多台并机使用,用于满足更大功率的使用需求,同时也可以根据客户要求定制以实现不同的测试功能。

IMAX 3100 series AC Load bank is AC pure resistance/resistance Load bank, the product can cover the power range of 50~1000kVA, the product working voltage range of 0~1140V (AC/DC), the Load bank can be used alone, or can be used in multiple machines, to meet the needs of higher power use. At the same time, it can also be customized according to customer requirements to achieve different test functions.

应用领域 Application field

- 船用发电机组检测;
- 应急电源检测;
- 电缆阻抗模拟;
- 开关器件寿命测试
- 逆变器、变流器测试,
- 户外储能测试,家用储能测试;
- 各类ATE测试
- Marine generator set testing;
- Emergency power supply detection;
- Cable impedance simulation;
- Switching device life test
- Inverter, converter test,
- Outdoor energy storage test, home energy storage test;
- Various ATE tests

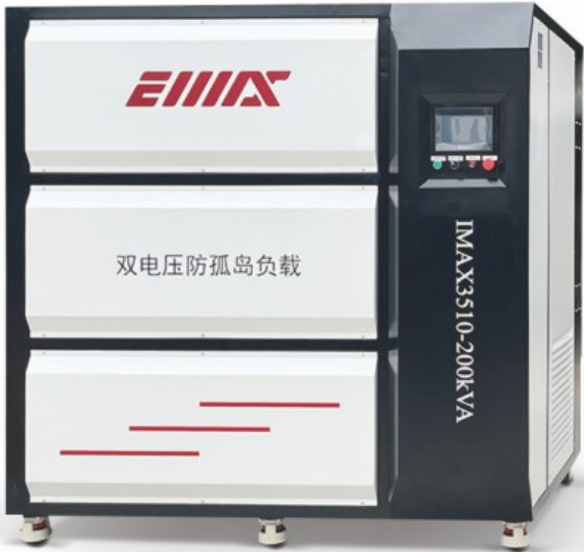
规格 Specifications

名称 Name	三相纯阻负载-R Three-phase pure resistance Load bank -R					
负载型号 Load model	IMAX3130-50k	IMAX3130-100k	IMAX3130-300k	IMAX3130-500k	IMAX3130-700k	IMAX3130-1000k
额定电压 Rated voltage	3P4W, AC220V/380V/400V/415V/440V					
阻性功率 Resistive power	55kW	110kW	310kW	510kW	710kW	1030kW
额定频率 Rated frequency	50/60Hz					
加载方式 loading method	步进加载 Step Loading					
负载特性 Load characteristics	纯电阻 pure resistance					
负载步进 load step	1KW					
主要检测项目 Main testing items	电源检测长期带载, 开关器件寿命测试 Power supply detection long - term load, switching device life test					
保护报警 protection alarm	负载短路、过流保护、过压保护、高温故障、风压保护、急停等保护功能。 Load bank short circuit, over current protection, over voltage protection, high temperature fault, wind pressure protection, emergency stop and other protection functions					
测控参数 Measurement and control parameters	显示电压、电流、有功功率、无功功率、视在功率、功率因数、频率等基本功能。 Display voltage, current, active power, apparent power, power factor, frequency and other basic functions					
噪音 noise	≤75dB		≤79dB		≤82dB	
出风方式 air outlet	侧下进风, 顶部出风 side and bottom inlet, top outlet.		侧下顶出/侧进侧出 Side down ejection/side in side out		侧下进风, 顶部出风 side and bottom inlet, top outlet.	
显示精度 Display accuracy	0.1V, 0.1A					
控制方式 control method	本地手动控制: 本地按钮/空开 Local manual control: local button/circuit breaker			本地手动控制: 通过负载箱7寸液晶触摸屏 Local manual control: through the Load bank 7 inch LCD touch screen		
	远程智能控制: RS485/CAN/以太网 Remote intelligent control: RS485/CAN/RJ45					
使用场所 place of use	室内 Indoor			室内/室外 Indoor/Outdoor		
重量 weight	80kg	120kg	450kg	650kg	950kg	1300kg
尺寸 size	W600mm×D800mm ×H1400mm	W600mm×D800mm ×H1600mm	侧出风(Side air out): W1500mm× D1300mm×H1400mm 顶出风(Ejection air): W1200mm* D1200mm*1800mm	侧出(Lateral out): W1750mm× D1300mm×H1400mm 顶出(ejection):W1200mm* D1400mm*H1800mm	W1200mm×D1400mm ×H2000mm	W1800mm×D1200mm ×H2000mm

规格 Specifications

名称 Name	单相阻感负载-RL Single phase resistive Load bank RL		三相阻感负载-RL Three phase resistive Load bank RL			
负载型号 Load model	IMAX3202-25k	IMAX3205-50k	IMAX3212-125k	IMAX3225-250k	IMAX3250-500k	IMAX32100-1000k
阻性功率 Resistive power	20kW	40kW	100kW	200kW	400kW	800kW
感性功率 Inductive power	15kVar	30kVar	75kVar	150kVar	300kVar	600kVar
加载方式 loading method	步进分档加载 Step by step loading					
负载特性 Load characteristics	阻感一体式 Integrated resistance and sensing					
负载步进 load step	1KW		阻性分档步长最小1kW/1kVar The minimum step size for resistive grading is 1kW/1kVar			
出风方式 Air outlet method	侧进风,侧出风 Side air inlet and side air outlet		侧下进风,顶部出风 side and bottom inlet, top outlet.		侧下顶出/侧进侧出 Side Down Top Out/Side In Side Out	
控制方式 control mode	本地手动控制:本地按钮/空开/触摸屏控制 Local manual control: local buttons/air switch/touch screen control		本地手动控制:本地按钮/空开 Local manual control: local button/air switch		本地手动控制:通过负载箱7寸液晶触摸屏 Local manual control: through the 7-inch LCD touch screen of the Load bank	
使用场所 Place of use	室内 Indoor		室内 Indoor		室内/室外 Indoor/Outdoor	
重量 weight	120kg	220kg	350kg	650kg	1100kg	2300kg
尺寸 size	W600mm×D800mm×H800mm	W800mm×D800mm×H1400mm	W800mm×D800mm×H1600mm	W1000mm×D1200mm×H1600mm	W1200mm×D1400mm×1800mm	W2000mm×D1800mm×H2000mm

防孤岛负载箱
Anti-islanding Load bank



产品特性 Product Features

- 可做防孤岛试验
- 提供上位机操作软件
- 具有RS485、以太网、CAN等多种通讯接口
- 测试步骤可编程,适用于光伏逆变器、储能变流器的自动化测试
- 可加载满功率范围内任意功率、任意功率因数,测试并显示发电组三相电压、电流、功率、品质因数;
- 功率调节精度:1W/1Var
- 通过PC数据管理软件控制负载加载卸载,并保存测试数据

- Can do anti-islanding test
- Provide upper computer operating software
- With RS485,RJ45, CAN and other communication interfaces
- Programmable test steps, suitable for automated testing of photovoltaic inverters and energy storage converters
- It can Load bank any power and any power factor within the full power range, test and display the three-phase voltage, current, power and quality factor of the generator set;
- Power adjustment accuracy: 1W/1Var
- Control the load loading and unloading through PC data management software, and save the test data

产品说明 Product Description

防孤岛检测装置满足并网逆变器、储能变流器的防孤岛效应保护试验、过载保护试验、过流保护试验,功率因素测定试验,工作效率测量试验,并网电流谐波试验,该产品是并网逆变器、储能变流器综合性能测定必不可少的检测工具,是应用于产品出厂试验、型式试验、防孤岛保护试验的专业检验仪器。

The anti-islanding detection device meets the islanding effect protection test of grid-connected inverter and energy storage converter, overload protection test, overcurrent protection test, power factor test, work efficiency test and grid-connected current waveform test. This product is an indispensable test tool for the comprehensive performance test of grid-connected inverters and PCS. It is used in the factory test and type test of products. Also a professional inspection instrument for anti-island protection test.

上位机界面图 Host computer interface diagram



触摸屏界面 touch screen interface



规格 Specifications

名称 Name	三相防孤岛负载-RLC Three-phase anti-island Load bank -RLC					
负载型号 Load model	IMAX3510-20k	IMAX3510-100k	IMAX3510-400k	IMAX3510-1000k	IMAX3510-1600k	IMAX3510-2000k
额定电压 Rated voltage	3P4W, AC220V/380V/400V/415V/440V					
阻性功率 Resistive power	6.6kW	33.3kW	136.6kW	343.3kW	541.1kW	671.1kW
感性功率 Inductive power	6.6kVar	33.3kVAR	136.6kVar	343.3kVAR	541.1kVAR	671.1kVAR
容性功率 Capacitive power	6.6kVar	33.3kVAR	136.6kVar	343.3kVAR	541.1kVAR	671.1kVAR
额定频率 Rated frequency	50/60Hz					
加载方式 Loading method	可阻感容独立可调 Resistance-capacitance independent adjustable					
负载特性 Load characteristics	阻感容一体负载 Resistive capacitance integrated Load bank					
负载步进 load step	1KW					
主要检测项目 Main test items	并网逆变器防孤岛效应保护试验、逆变器效率试验、功率因数测试试验、过载保护试验。 Grid-connected inverter anti-island effect protection test, inverter efficiency test, power factor test, overload protection test.					
保护报警 Protection alarm	负载短路、过流保护、过压保护、高温故障、急停等保护功能。 Load bank short circuit, over current protection, over voltage protection, high temperature fault, emergency stop and other protection functions.					
测控参数 Measurement and control parameters	显示电压、电流、有功功率、无功功率、视在功率、品质因数、功率因数、频率等基本功能。 Display voltage, current, active power, reactive power, apparent power, quality factor, power factor, frequency and other basic functions.					
噪音 noise	≤70dB		≤78dB			≤82dB
出风方式 air outlet	侧下进风,顶部出风。 side and bottom inlet,top outlet.					
显示精度 Display accuracy	0.1V, 0.1A					
控制方式 control method	本地手动控制:通过负载箱7寸液晶触摸屏。Local manual control: through the Load bank 7 inch LCD touch screen. 远程智能控制:RS485/CAN/以太网 Remote intelligent control: RS485/CAN/ RJ45					
使用场所 place of use	室内 indoor					
重量 weight	250kg	1200kg	3250kg	7200kg	8500kg	9000kg
尺寸 size	W800mm× D1000mm× H1800mm	W1200mm× D1200mm× H1800mm	W2500mm× D2500mm× H2200mm	W2991mm× D2438mm× H2591mm	W6058mm× D2438mm× H2591mm	W6058mm× D2438mm× H2591mm
				10尺集装箱 10-foot container	20尺集装箱 20-foot container	

名称 Name	三相防孤岛负载-RLC Three-phase anti-island Load bank -RLC					
负载型号 Load model	IMAX3510-2000k	IMAX3510-3000k	IMAX3510-3600k	IMAX3510-4000k	IMAX3510-5000k	IMAX3510-6000k
额定电压 Rated voltage	3P4W, AC220V/380V/400V/415V/440V					
阻性功率 Resistive power	671.1kW	1011.1kW	1201.1kW	1343.3kW	1741.1kW	2011.1kW
感性功率 Inductive power	671.1kVAR	1011.1kVAR	1201.1kVAR	1343.3kVAR	1741.1kVAR	2011.1kVAR
容性功率 Capacitive power	671.1kVAR	1011.1kVAR	1201.1kVAR	1343.3kVAR	1741.1kVAR	2011.1kVAR
额定频率 Rated frequency	50/60Hz					
加载方式 Loading method	可阻感容独立可调 RLC independently adjustable					
负载特性 Load characteristics	阻感容一体负载 RLC Integrated Load bank					
负载步进 load step	1KW					
主要检测项目 Main test items	并网逆变器防孤岛效应保护试验、逆变器效率试验、功率因数测试试验、过载保护试验 Grid-connected reverse purchase device anti-island effect protection test, inverter efficiency test, power factor test, overload protection test					
保护报警 Protection alarm	负载短路、过流保护、过压保护、高温故障、急停等保护功能。 Load short circuit, over current protection, over voltage protection, high temperature fault, emergency stop and other protection functions					
测控参数 Measurement and control parameters	显示电压、电流、有功功率、无功功率、视在功率、品质因数、功率因数、频率等基本功能。 Display voltage, current, active power, reactive power, apparent power, quality factor, power factor, frequency and other basic functions					
噪音 noise	≤78dB	≤78dB	≤80dB			≤82dB
出风方式 air outlet	侧下进风,顶部出风。 side and bottom inlet,top outlet.					
显示精度 Display accuracy	0.1V, 0.1A					
控制方式 control method	本地手动控制:通过负载箱10寸液晶触摸屏。Local manual control: through the load box 10 inch LCD touch screen 远程智能控制:RS485/CAN/以太网 Remote intelligent control: RS485/CAN/ RJ45					
使用场所 place of use	室内/室外 Indoor/Outdoor					
重量 weight	9000kg	15000kg	18500kg	215000kg	245000kg	265000kg
尺寸 size	W6058mm× D2438mm× H2591mm	L9000mm× W2438mm× H2591mm	L9000mm×W2438mm×H2591mm		L12191mm×W2438mm×H2896mm	
	20尺集装箱 20 FT Container	9米集装箱 9m Container	40尺集装箱 40 feet Container		40尺加高集装箱 40 feet HQ Container	

宽电压交流负载箱

Wide Voltage Application Load bank



应用领域 Application field

氢能燃料电池电堆及发动机测试、飞轮储能电机测试、超级充电桩测试、高压充电模块测试、断路器瞬态特性测试、锂电池放电测试、废旧电池放电、储能模块测试。

Hydrogen fuel cell stack and engine test, flywheel energy storage motor test, super charging pile test, high-voltage charging module test, circuit breaker transient characteristics test, lithium battery discharge test, waste battery discharge, energy storage module test.

产品特性 Product Features

- 具有恒电流、恒功率模式，可平替直流电子负载，性价比高；
- 具有标准机型，可模块化并机；
- 体积小、噪音低；
- 提供多种通讯接口：RS485/以太网/CAN等
- 具备数据监控软件
- With constant current, constant power mode, can replace DC electronic Load bank, cost-effective;
- With standard models, modular parallel;
- Small size, low noise;
- Provide a variety of communication interfaces: RS485/ RJ45 /CAN, etc
- Data monitoring software is available

产品说明 Product Description

宜迈思IMAX3900系列为宽电压交流电子负载，此款负载具有自适应交流宽电压、自动功率调节、自动电流调节等多种功能，同时具有功率密度大、功率因数可调等多种工况的需求。宽度电压交流测试负载，可满足可调交流源测试需求，可满足继电器/接触器等实现多种电压等级测试需求。

IMAX 3900 series is a wide voltage AC electronic Load bank, this Load bank has a variety of functions such as adaptive AC wide voltage, automatic power regulation, automatic current regulation, and at the same time, it has a large power density, power factor adjustment and other conditions. The width voltage AC test Load bank can meet the test requirements of adjustable AC source, and can meet the test requirements of various voltage levels such as relays/contactors.



规格 Specifications

名称 Name	纯阻负载箱 Resistive Load bank		
负载型号 Load type	IMAX3610	IMAX3620	IMAX3630
额定电压 Rated voltage	AC220~400V		
相数 Phase number	单相 monophase		
阻性功率 Resistive power	30kW	60kW	90kW
工作电压 Operating voltage	可降压使用，负载功率也随电压降低。 The Load bank power can be reduced with voltage.		
额定频率 Rated frequency	50/60Hz		
负载特性 Load characteristic	纯阻 Pure resistance		
负载步进 Load stepping	1KW		
保护报警 Protection alarm	负载短路、过流保护、过压保护、风机风量保护、门限位保护、高温故障、急停等保护功能。 Load bank short circuit, overcurrent protection, overvoltage protection, fan volume protection, threshold protection, high temperature fault, emergency stop and other protection functions.		
测控参数 Measurement and control parameter	显示电压、电流、有功功率、无功功率、视在功率、功率因数、频率等基本功能。 Display voltage, current, active power, reactive power, apparent power, power factor, frequency and other basic functions.		
运输方式 Mode of transport	带刹车脚轮，带把手。 With brake caster, with handle.		
工作方式 Working mode	连续工作 Continuous operation		
噪音 Noise	≤75dB		
出风方式 Exhaust mode	侧下进风，顶部出风。 side and bottom inlet, top outlet.		
绝缘等级 Insulation class	F级 Grade F		
显示精度 Display accuracy	0.5级 Level 0.5		
控制方式 Control mode	本地手动控制：通过负载箱的控制面板进行手动控制。 Local manual control: Manual control through the control panel of the Load bank. 远程智能控制：RS485接口，通讯协议为Modbus-RTU，可连接上位机软件远程控制。 Remote intelligent control: RS485 interface, communication protocol Modbus-RTU, can be connected to the upper computer software remote control.		
重量 Weight	180kg	300kg	450kg
尺寸 Dimension	L800mm×W800mm×H1500mm	L950mm×W1000mm×H1500mm	L1100mm×W1200mm×H1600mm
箱体颜色 Case color	灰色，RAL7035。 Grey, RAL7035.		

名称 Name	阻感负载箱 Resistance Load bank		
负载型号 Load type	IMAX3630	IMAX3660	IMAX3690
额定电压 Rated voltage	AC200~400V (线电压)		
相数 Phase number	三相四线制		
阻性功率 Resistive power	30kW	60kW	90kW
感性功率 Inductive power	22.5kVAR	45kVAR	67.5kVAR
功率因数 Power factor	0.8~1		
工作电压 Operating voltage	可降压使用，负载功率也随电压降低。 The load power can be reduced with voltage.		
额定频率 Rated frequency	50/60Hz		
负载特性 Load characteristic	阻感并联 Resistance-inductive parallel		
负载步进 Load stepping	1KW		
保护报警 Protection alarm	负载短路、过流保护、过压保护、风机风量保护、门限位保护、高温故障、急停等保护功能。 Load bank short circuit, overcurrent protection, overvoltage protection, fan volume protection, threshold protection, high temperature fault, emergency stop and other protection functions.		
测控参数 Measurement and control parameter	显示三相电压、三相电流、有功功率、无功功率、视在功率、功率因数、频率等基本功能。 Display three phase voltage, three phase current, active power, reactive power, apparent power, power factor, frequency and other basic functions.		
运输方式 Mode of transport	带刹车脚轮，带把手。 With brake caster, with handle.		
工作方式 Working mode	连续工作 Continuous operation		
噪音 Noise	≤75dB		
出风方式 Exhaust mode	侧下进风，顶部出风。 side and bottom inlet, top outlet.		
绝缘等级 Insulation class	F级 Grade F		
显示精度 Display accuracy	0.5级 Level 0.5		
控制方式 Control mode	本地手动控制：通过负载箱的控制面板进行手动控制。 Local manual control: Manual control through the control panel of the Load bank. 远程智能控制：RS485接口，通讯协议为Modbus-RTU，可连接上位机软件远程控制。 Remote intelligent control: RS485 interface, communication protocol Modbus-RTU, can be connected to the upper computer software remote control.		
重量 Weight	450kg	850kg	1150kg
尺寸 Dimension	L1200mm×W1000mm×H1500mm	L1400mm×W1000mm×H1600mm	L1550mm×W1100mm×H1750mm
箱体颜色 Case color	灰色，RAL7035。 Grey, RAL7035.		

RCD非线性负载箱

RCD Load bank



产品特性 Product Features

- 可做逆变器测试使用, 可为UPS带载测试
- 提供上位机操作软件, 可配套ATE特使用
- 具有RS485、以太网、CAN等多种通讯接口
- 测试步骤可编程, 适用于光伏逆变器、储能逆变器的自动化测试
- 可加载满功率范围内任意功率;
- 功率调节精度: 最低可达10W;
- 功率因数调节: 最低可达0.45
- 峰值因数CF: 最高可达3
- 可定制宽电压使用;
- 通过PC数据管理软件控制负载加载, 并保存测试数据

- It can be used for inverter test, and can be used for UPS Load bank test
- Provide upper computer operating software, which can be used with ATE
- With RS485, RJ45, CAN and other communication interfaces
- Programmable test steps, suitable for automated testing of photovoltaic inverters and energy storage inverters
- Any power within the full power range can be loaded;
- Power adjustment accuracy: the lowest can reach 10W;
- Power factor adjustment: as low as 0.45
- Crest factor CF: up to 3
- Can be customized for wide voltage use;
- Control the loading and unloading through PC data management software, and save the test data

产品说明 Product Description

RCD负载是一种非线性模拟负载, 可用来测试便携式储能、UPS电源、逆变器、家用储能等, 了解其带计算机、网络设备等非线性负载时的真实工作能力。通过对电源输出功率和质量的精确检测, 可避免其在实际使用时无法带动负载或对电网造成污染, 从而保障供电安全。

可满足便携式储能电源、户外储能电源、家用储能电源、光伏逆变器带载试验、UPS电源测试、其他非线性负载测试要求

RCD Load bank is a kind of nonlinear simulation Load bank, which can be used to test portable energy storage, UPS power supply, inverter, household energy storage, etc., to understand its real working ability with nonlinear loads such as computers and network equipment. Through the accurate detection of the output power and quality of the power supply, it can be avoided that it cannot drive the load or cause pollution to the power grid during actual use, thereby ensuring the safety of power supply.

It can meet the requirements of portable energy storage power supply, outdoor energy storage power supply, household energy storage power supply, photovoltaic inverter load test, UPS power supply test, and other nonlinear load test requirements professional products and services, making testing accurate and convenient!

上位机界面图 Host computer interface diagram



触摸屏界面 touch screen interface



规格 Specifications

名称 Name	三相RCD负载-非线性负载 Three-phase RCD Load bank					
负载型号 Load model	IMAX5330-15k	IMAX5330-30k	IMAX5330-45k	IMAX5330-60k	IMAX3510-100k	IMAX3510-200k
额定电压 Rated voltage	3P4W, AC220V/380V/400V/415V/440V					
使用电压 Use voltage	可定制其他电压、宽电压或其他模式 Other voltages, wide voltages, or other modes can be customized					
最大功率 Maximum power	15kVA	30kVA	45kVA	60kVA	100kVA	200kVA
额定频率 Rated frequency	50/60Hz					
功率因数PF Power factor PF	0.6~1可调, 最低可0.5 0.6~1 adjustable, minimum 0.5					
波峰因数CF Crest Factor CF	2~3可调 2~3 adjustable					
步进精度 Step accuracy	100W/50W/25W可选 100W/50W/25W Optional					
负载分档 load binning	A相: 0.1k/0.2k/0.5k/1k/2k/5k/其他 Phase A: 0.1k/0.2k/0.5k/1k/2k/5k/ other					
	B相: 0.1k/0.2k/0.5k/1k/2k/5k/其他 Phase B: 0.1k/0.2k/0.5k/1k/2k/5k/ other					
	C相: 0.1k/0.2k/0.5k/1k/2k/5k/其他 Phase C: 0.1k/0.2k/0.5k/1k/2k/5k/ other					
	可定制: 三个单相/1个单相/三相独立, 最大功率不超总功率 Customizable: three single phase/one single phase/three phase independent, maximum power does not exceed the total power					
负载功能 Load function	R载测试、RCD载测试、负载总投切开关、短路功能可选 R-Load bank test, RCD Load bank test, total load switching switch, short-circuit function is optional					
主要检测项目 Main test items	便携式储能电源、户外储能电源、家用储能电源、光伏逆变器带载试验、UPS电源测试、其他非线性负载测试要求 Portable energy storage power supply, outdoor energy storage power supply, home energy storage power supply, photovoltaic inverter on-Load bank test, UPS power supply test, other nonlinear load test requirements					
保护报警 Protection alarm	接地保护、高温故障、急停等保护功能。 Ground protection, high temperature fault, emergency stop and other protection functions.					
测控参数 Measurement and control parameters	显示电压、电流、有功功率、无功功率、视在功率、功率因数、频率等基本功能。 Display voltage, current, active power, reactive power, apparent power, power factor, frequency and other basic functions.					
噪音 noise	≤72dB		≤75dB		≤78dB	
出风方式 air outlet	侧下进风, 顶部出风。 side and bottom inlet, top outlet.					
显示精度 Display accuracy	0.1V, 0.1A, PF (0.01)					
控制方式 control method	手动: 按钮/微型断路器控制。 Manual: Button/micro circuit breaker control.					
	本地手动控制: 通过负载箱7寸液晶触摸屏。 Local manual control: through the Load bank 7 inch LCD touch screen.					
	远程智能控制: RS485, (协议为Modbus-RTU, 提供上位机软件。) Remote intelligent control: RS485, (the protocol is Modbus-RTU, the host computer software is provided.)					
使用场所 place of use	室内 indoor			室内/室外 Indoor/outdoor		
重量 weight	150kg	230kg	280kg	320kg	400kg	480kg
尺寸 size	W800mm×D600mm×H1600mm		W1000mm×D1200mm×H1850mm		W1200mm×D1400mm×H2000mm	

名称 Name	单相RCD负载 Single-phase RCD Load bank		
负载型号 Load model	IMAX5310-5k	IMAX5310-10k	IMAX3510-15k
额定电压 Rated voltage	1P2W, 220V/110V, 可定制双电压 1P2W, 220V/110V, double voltage can be customized		
最大功率 Maximum power	5kVA	10kVA	15kVA
额定频率 Rated frequency	50/60Hz		
功率因数PF Power factor PF	0.6~1 (可调), 最低可0.45 0.6~1 (adjustable), minimum 0.45		
波峰因数CF Crest Factor CF	2~3		
步进精度 Step accuracy	100W/50W/25W可选 100W/50W/25W Optional		
负载分档 load binning	0.1k/0.2k/0.5k/1k/2k/5k/其他 0.1k/0.2k/0.5k/1k/2k/5k/ other		
主要检测项目 Main test items	便携式储能电源、户外储能电源、家用储能电源、光伏逆变器带载试验、UPS电源测试、其他非线性负载测试要求 Portable energy storage power supply, outdoor energy storage power supply, home energy storage power supply, photovoltaic inverter on-load test, UPS power supply test, other nonlinear load test requirements		
保护报警 Protection alarm	接地保护、高温故障、急停等保护功能。 Ground protection, high temperature fault, emergency stop and other protection functions.		
测控参数 Measurement and control parameters	显示电压、电流、有功功率、无功功率、视在功率、功率因数、频率等基本功能。 Display voltage, current, active power, reactive power, apparent power, power factor, frequency and other basic functions.		
噪音 noise	≤65dB	≤70dB	≤70dB
出风方式 air outlet	前进风后出风。 After the forward wind comes the wind.	侧下进风, 顶部出风。 side and bottom inlet, top outlet.	侧下进风, 顶部出风。 side and bottom inlet, top outlet.
显示精度 Display accuracy	0.1V, 0.1A		
控制方式 control method	手动: 按钮/微型断路器控制 Manual: Button/micro circuit breaker control		
	本地手动控制: 通过负载箱7寸液晶触摸屏。 Local manual control: through the load box 7 inch LCD touch screen.		
	远程智能控制: RS485, (协议为Modbus-RTU, 提供上位机软件。)		
	Remote intelligent control: RS485, (the protocol is Modbus-RTU, the host computer software is provided.)		
使用场所 place of use	室内 indoor		
重量 weight	65kg	120kg	200kg
尺寸 size	W600mm×D800mm×H800mm	W600mm×D800mm×H1400mm	W600mm×D800mm×H1600mm

液冷负载箱

Liquid Cooled Load bank



应用领域 Application field

- 科研院所
 - 通信设施
 - 轨道交通
 - 航空航天
 - 工业企业
 - 数据中心
- Research Institute
 - Communications Facility
 - Rapid Transit
 - Aerospace
 - Industrial Enterprise
 - Data Center

产品说明 Product Description

模拟负载设备主要有自冷、风冷、液冷等散热方式。液冷式负载以高比热容的液体取代空气作为冷媒，为发热的功耗组件进行散热。相比于常见的风冷式负载，液冷式负载噪音更小，适用于对能耗、静音要求较高的数据中心等，可对机房电源、UPS、应急电源、发电机组等关键电源设备进行测试、验收、维护

Analog Load bank devices are mainly self-cooled, air-cooled, and liquid-cooled to dissipate heat. Liquid-cooled Load bank use a liquid with a high specific heat capacity instead of air as the refrigerant to dissipate heat for the heat-generating power components. Compared with common air-cooled Load bank, liquid-cooled Load bank have less noise and are suitable for data centers with high requirements for energy consumption and silence, etc. They can be used for testing, acceptance, and maintenance of key power equipment such as server room power supply, UPS, emergency power supply, and generator sets.

产品特性 Product Features

- 能耗效率更高:液冷式负载比风冷式负载平均可节省耗电量30%-50%
 - 静音品质更佳:同等散热水平下，液冷式负载比风冷式负载的噪音可降低20-35分贝
 - 散热效率更高:同体积液体带走的热量是同体积空气的近3000倍，且液体导热能力是空气的25倍
 - 性能稳寿命长:由于散热效率更高，液冷式负载的主要元件损耗低于风冷式负载，可以带来久稳定的性能和使用寿命
- Higher energy efficiency: Liquid-cooled load bank save an average of 30%-50% of power consumption compared to air-cooled Load bank.
 - Better sound quality: Liquid-cooled loads are 20-35 dB quieter than air-cooled Load bank at the same level of heat dissipation.
 - Higher heat dissipation efficiency: the heat carried away by the same volume of liquid is nearly 3,000 times that of the same volume of air, and the thermal conductivity of liquid is 25 times that of air.
 - Stable performance and long service life: Due to higher heat dissipation efficiency, liquid-cooled Load bank have lower main component losses than air-cooled Load bank, resulting in stable performance and long service life.

单通道液冷负载正反面示意图

Front view of single-channel liquid-cooled Load bank



规格 Specifications

型号 Model	IMAX8004	IMAX8005	IMAX8015	IMAX8030
额定功率 Rated power	4KW	5KW	15KW	30KW
最小步进 Minimum step	1KW或者1A 1KW or 1A			
负载类型 Load Type	PTC/纯阻 PTC/Pure Resistance			
数据显示 Data Display	电压、电流、功率、功率因数、进出水温、水压等 Voltage, current, power, power factor, inlet and outlet water temperature, water pressure, etc.			
保护功能 Protective function	短路、过流、高温、急停、水压保护等 Short circuit, overcurrent, high temperature, emergency stop, water pressure protection, etc.			
工作噪音 working noise	60dB			
接线方式 Wiring	1P2W/3P4W			
控制方式 Control method	手动面板/就地自动/远程便携箱/远程上位机 Manual panel/local automatic/remote portable case/remote upper computer			
安装方式 Installation	满足19英寸标准机柜安装规范 Meets 19-inch standard cabinet mounting specifications			
设备正面 Equipment front	正面含拉手、微断、温度仪表、蜂鸣器、急停按钮、电参数仪表(可选配带通讯) Front side with pull handle, micro break, temperature meter, buzzer, emergency stop button, electric parameter meter (optional with communication)			
设备背面 Back of the device	电源接口、进出水接口、自动排气阀(选配)、开关球阀(选配)、通讯接口(选配) Power supply interface, inlet and outlet water interface, automatic exhaust valve (optional), switching ball valve (optional), communication interface (optional)			
液冷循环回路 Liquid Cooling Circuit	一进一出/两进两出 One in one out/two in two out			
外形尺寸 Dimensions	高度3U,约483*133*497mm Height 3U, about 483*133*497mm	高度4U,约483*177*650mm Height 4U, about 483*177*650mm	高度6U,约483*266*650mm Height 6U, about 483*266*650mm	高度6U,约483*266*650mm Height 6U, about 483*266*650mm
重量 weight	12kg	18kg	25kg	35kg

型号 Model	IMAX8110	IMAX8150	IMAX8210	IMAX8220
额定功率 Rated power	100KW	500KW	1000KW	2000KW
最小步进 Minimum step	1KW或者1A 1KW or 1A			
负载类型 Load Type	纯阻 pure resistance			
数据显示 Data Display	电压、电流、功率、功率因数、谐波含量、进出水温、水压等 Voltage, current, power, power factor, harmonic content, inlet and outlet water temperature, water pressure, etc.			
保护功能 Protective function	短路、过流、高温、急停、水压保护等 Short circuit, overcurrent, high temperature, emergency stop, water pressure protection, etc.			
流量 flux	9m³/H	30m³/H	90m³/H	180m³/H
工作噪音 working noise	60dB			
接线方式 Wiring	3P3W,3P4W,2W			
控制方式 Control method	手动面板/就地自动/远程便携箱/远程上位机 Manual panel/local automatic/remote portable case/remote upper computer			
冷却方式 Cooling method	水冷 water cooling			
外形尺寸 Dimensions	700*700*1000mm	1200*1500*1800mm	1300*1600*1800mm	1300*1600*2000mm
重量 weight	200kg	500kg	1200kg	2500kg

上位机界面图 Host computer interface diagram



开关器件寿命测试系统

Electrical Life Test System for Switching Devices



产品介绍

- 继电器触点电寿命试验, 适用于继电器出厂验证、入厂来料等性能测试。
- 采用触摸屏和可编程控制器PLC控制, 除产品装夹、参数设置为人工操作外, 其余的动作、通/断电计数、触点粘结等现象和断判均自动进行。
- 能对继电器、接触器触点进行交流或直流线圈通断电, 对触点进行寿命测试, 在测试中, 能够实时对触点进行监测, 有接触不通或者触点粘死时自动报警停机, 显示报警工位。适用于继电器、接触器进行寿命检测用或零件抽检用, 是小型继电器生产厂家和电器检测所必备的设备。
- Relay contact electrical life test, suitable for relay factory verification, incoming materials and other performance tests.
- Touch screen and programmable controller PLC control, in addition to product clamping, parameters set to manual operation, the rest of the action, on/off counting, contact bonding and other phenomena and judgment are automatically carried out.
- The relay and contactor contacts can be switched on and off by AC or DC coil, and the contact life test can be carried out. In the test, the contact can be monitored in real time, and the alarm will be automatically stopped when the contact is blocked or the contact is stuck, and the alarm station will be displayed. It is suitable for life detection of relays and contactors or random inspection of parts. It is a necessary equipment for small relay manufacturers and electrical testing.

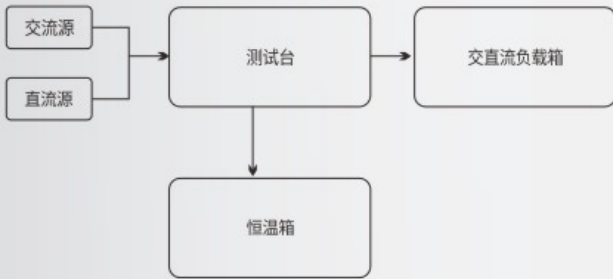
机械寿命测试 Mechanical life test

主要参数 Main parameter		
设备型号 Equipment type	IMAXAT20-5	IMAXAT20-6
设备名称 Device name	五工位机械寿命测试平台	六工位机械寿命测试平台
辅助电源 Auxiliary power supply	AC220V/50Hz	
测试台 Test bench	多个工位, 快速安装。触摸屏控制线圈通/断, 以及故障检测	
实验次数 Number of experiments	1~999999可PLC预置, 可断电保持, 次数到达时自动停机并有声光报警	
线圈电压 Coil voltage	直流: 0~60Vdc, 1A, 电压精度± (3%); 交流: 6~300Vac, 500VA; 电压精度: ± (3%)	
线圈类型 Coil type	普通型 (通电吸合, 断电分断)、单线圈磁保持、双线圈磁保持	
通、断时间 On and off time	0.1秒~999.9S可PLC任意预置	
间隔测试时间 Interval test time	0.1秒~999.9S可PLC任意预置	
时间分辨率 Time resolution	0.1秒	
通风散热、可操作性 Ventilation, heat dissipation, operability	良好的通风散热, 设备可操作性及维修性好	
语言模式 Language pattern	中文	
设备报警 Equipment alarm	具备试验异常、试验结束声控报警停机提醒	
测试模式 Test mode	触点独立检测	
工作模式 Working mode	通过设定线圈工作方式、试验次数、通断时间、累积失效次数等参数, 调整线圈电压 (DC), 按下启动按钮开始试验, 试验顺序固定每个工位可同时进行 (满工位选择), 每个工位各自工作不影响。	
保护功能 Protection function	短路、高温、紧急停机保护、声光报警, 同时在触摸屏上显示故障位置及其原因和解决办法。	
噪音 noise	工作噪音≤65dB (1M)	
尺寸 Dimension	约550mm*700mm*670mm(宽*深*高)	
重量 Weight	约47kg	
移动方式 Moving mode	底部有脚轮, 可以移动。	
保护等级 Protection class	室内使用IP20	
机箱颜色 Case color	灰色, RAL7035。	

概况 Overview

继电器电耐久性试验台是对继电器的触点电耐久性进行试验的专用设备。该设备主要由直流电源、交流电源、电气寿命测试台、恒温箱、交直流负载箱组成。

Relay electrical durability test bench is a special equipment for testing the electrical durability of relay contacts. The equipment is mainly composed of DC power supply, AC power supply, electrical life test bench, thermostat and AC/DC Load bank.



关联关系图

电气寿命测试系统 Electrical Life Test System

主要参数 Main parameter			
测试功能 Test function	设备型号 Equipment type	IMAXAT5-1	IMAXAT5-2
	设备名称 Device name	5工位轮询测试系统	5工位独立测试系统
	辅助电源 Auxiliary power supply	AC220V/AC380V	AC380V
	测试台 Test bench	5个工位, 快速安装。触摸屏控制线圈通/断, 以及负荷加载	6个工位, 快速安装。触摸屏控制线圈通/断, 以及负荷加载
	实验次数 Number of experiments	1~999999可PLC预置, 可断电保持, 次数到达时自动停机并有声光报警	1~999999可PLC预置, 可断电保持, 次数到达时自动停机并有声光报警
	线圈电压 Coil voltage	直流: 0~60Vdc, 1A, 电压精度± (3%); 交流: 6~250Vac, 500VA; 电压精度: ± (3%); 其他电压参数可定制	直流: 0~60Vdc, 1A, 电压精度± (3%); 交流: 6~250Vac, 500VA; 电压精度: ± (3%); 其他电压参数可定制
	线圈类型 Coil type	普通型 (通电吸合, 断电分断)、单线圈磁保持、双线圈磁保持	普通型 (通电吸合, 断电分断)、单线圈磁保持、双线圈磁保持
	辅助触点检测 Auxiliary contact detection	可根据需求增加, 默认不检测	可根据需求增加, 默认不检测
	通断时间 On-off time	0.1s~999.9S可PLC任意预置	0.1s~999.9S可PLC任意预置
	间隔测试时间 Interval test time	0.1s~999.9S可PLC任意预置	0.1s~999.9S可PLC任意预置
测试台参数 Test bench parameter	时间分辨率 Time resolution	0.01秒 (设置范围: 0~100秒连续可调)	0.01秒 (设置范围: 0~100秒连续可调)
	设备报警 Equipment alarm	具备试验异常、试验结束声控报警停机提醒	具备试验异常、试验结束声控报警停机提醒
	数显精度 Digital display accuracy	输出电压值、电流值、功率、功率因数, 仪表精度0.5级	输出电压值、电流值、功率、功率因数, 仪表精度0.5级
	测试模式 Test mode	触点独立带载测试	触点独立带载测试
	保护功能 Protection function	短路、高温、紧急停机保护、声光报警, 同时在触摸屏上显示故障位置及其原因和解决办法。	短路、高温、紧急停机保护、声光报警, 同时在触摸屏上显示故障位置及其原因和解决办法。
	尺寸 Dimension	W1200mm*D900mm*H1400mm	W1200mm*D900mm*H1400mm
	重量 Weight	约220kg	约220kg
	移动方式 Moving mode	底部有脚轮, 可以移动	底部有脚轮, 可以移动
	保护等级 Protection class	IP20	IP20
	机箱颜色 Case color	灰色, RAL7035	灰色, RAL7035
负载箱参数 Load box parameter	类型 Type	阻感一体	阻感一体
	相数 Phase number	三相/单相/裂相	三相/单相/裂相
	电压 Voltage	AC50~690V/DC50~1500V	AC50~690V/DC50~1500V
	回路 Loop	1CH	5CH
	容量 Capacity	0~500A	0~500A
	满足标准 Meet the criteria	GB_T 14048.1	GB_T 14048.1
	类型 Type	变频交流源/可调直流源	变频交流源/可调直流源
	功率 Power	满足负载容量	满足负载容量
	电压 Voltage	AC50~690V/DC50~1500V	AC50~690V/DC50~1500V
	回路 Loop	1CH	1CH

机架式负载箱
Rack Load bank



产品特性 Product Features

- 负载体积小, 重量轻, 方便运输。
- 应用场景广
- 采用标准4U/6U/8U机箱设计, 可完全适合标准网络机柜中使用。
- 操作简便, 电参数可视, 实时监控电压、电流。
- The Load bank is small in size and light in weight, making it easy to transport.
- Wide range of application scenarios
- It adopts standard 4U/6U/8U chassis design, which is completely suitable for use in standard network cabinets.
- The operation is simple, the electrical parameters are visible, and the voltage and current are monitored in real time.

规格 Specifications

型号 Model	1006	1008	1026	1028	1038	1043	1045
额定电压 Rated voltage	AC/DC220V	AC/DC220V	AC/DC220V-270V	AC/DC220V-270V	AC/DC220V-270V-336V	DC48V	DC48V
最大功率 Maximum power	6KW	8KW	6KW	8KW	8KW	2.4KW	4.8KW
最大电流 Maximum current	27A	36A	27A	36A	36A	50A	100A
步进 stepping	1KW					50A	100A
分档 Binning	1KW、1KW、2KW、 、2KW	1KW、1KW、2KW、 2KW、2KW	1KW、1KW、2KW、 2KW	1KW、1KW、2KW、 2KW、2KW	1KW、1KW、2KW、 2KW、2KW	50A	100A
负载特性 Load characteristics	纯阻 resistive						
控制方式 control method	手动微型断路器控制 Manual micro circuit breaker control					手动按钮控制 Manual push button control	
尺寸 size	433*177*500mm						
重量 weight	12KG	14KG	13KG	15KG	17KG	13KG	15KG

产品说明 Product Description

宜迈思1000系列负载为纯阻机架式负载, 设备冷却方式为强制风冷。主要应用与数据中心检测、电池组放电、开关电源检测等。大量应用于移动、电信、联通、数据中心等交换机房模拟负载。交流稳压器、逆变器、开关电源等通信交流设备的输出功率与带载能力。

IMAX 1000 series Load bank are purely resistive rack-mounted Load bank, and the equipment cooling method is forced air cooling. The main applications are data center detection, battery pack discharge, switching power supply detection, etc. It is widely used in mobile, telecom, China Unicom, data centers and other switching room simulation Load bank. Output power and Load bank capacity of communication AC equipment such as AC voltage stabilizer, inverter, switching power supply, etc.

应用领域 Application field

直流发电机组, 电池充电板, UPS充电板, 光伏汇流箱等直流电源检测的场合。交流测试服务器、UPS、发电机组等交流电源。交流稳压器、逆变器、开关电源等通信交流设备的输出功率与带载能力。模拟阻性负载, 可以检测电源在不同负载的性能。

DC generator set, battery charging board, UPS charging board, photovoltaic combiner and other DC power detection occasions. AC test server, UPS, generator set and other AC power sources. Output power and Load bank capacity of communication AC equipment such as AC voltage stabilizer, inverter, switching power supply, etc. Simulate the resistive Load bank to test the performance of the power supply under different Load bank.

合作伙伴
Cooperative Partner



客户案例现场

Customer Case Site



某国企发电机组测试项目3200KW-RL负载箱
A state-owned enterprise generator set test project 3200KW-RL Load bank



出口项目1800KW-RLC负载箱
1800KW RLC Load Bank for Export Project



某央企动力测试项目10.5KV-3300KW-RLC负载箱
A central enterprise power test project 10.5KV-3300KW-RLC Load bank



国电投-飞轮储能测试
State Power Investment - flywheel energy storage test



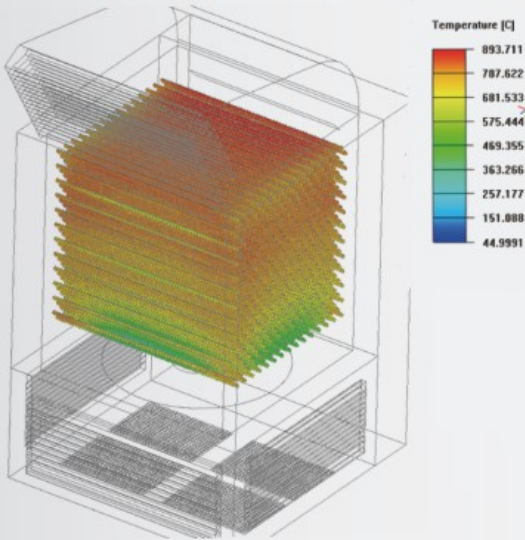
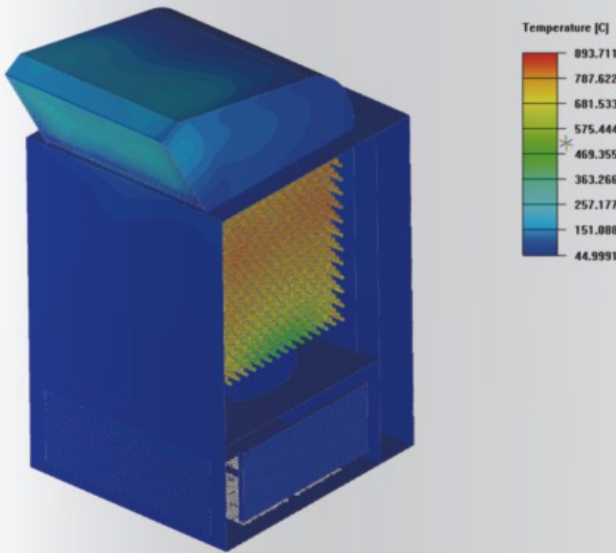
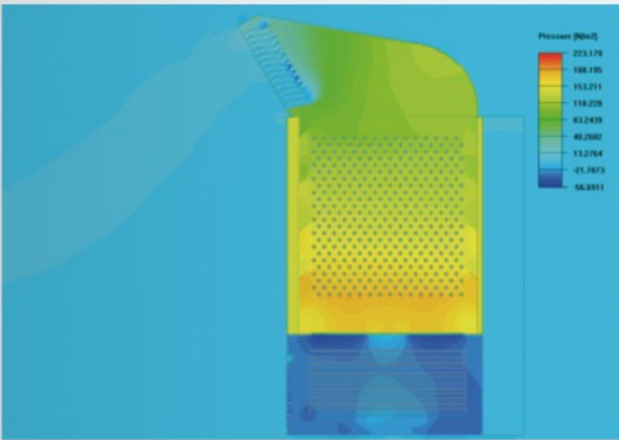
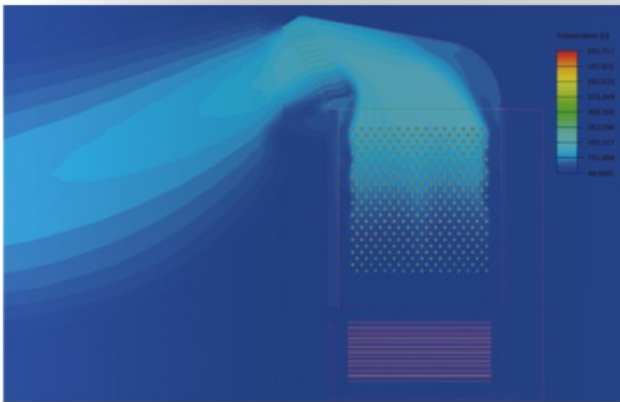
储能变流器防孤岛负载箱
PCS test anti-islanding Load bank



实验检测测试设备
Experimental testing equipment

热仿真报告

Thermal simulation analysis report



其他产品
Other Products



充电枪综合测试系统
Integrated testing system for automotive charging guns



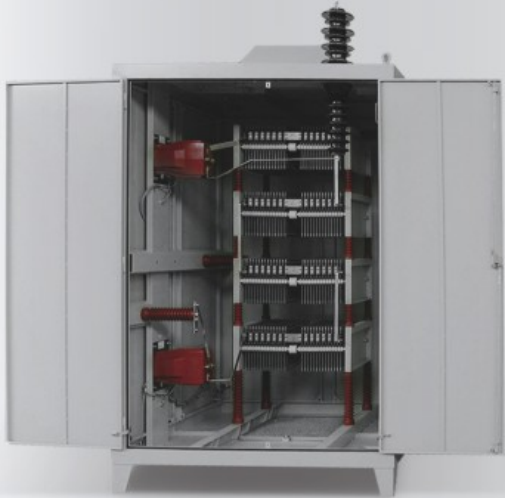
交直流一体超充测试
AC/DC integrated super charging Load bank test system



高压直流电源
High voltage DC power supply



裂相调压器
American standard split-phase voltage regulator



中性点接地电阻柜
NGR



回馈式负载
AC/DC feedback grid-connected Load bank



电网接地故障模拟装置
Power grid grounding fault simulation device



电抗器
Inductor Load bank unit



水冷电阻器模块
Water-cooled resistor module



电阻器
Resistor



电阻器
Resistor



电阻器
Resistor